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Title: Terahertz wave optical parameter amplification device has wave signal source that is connected to non-linear optical crystal which outputs wave to input port

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Abstract: NOVELTY - The device has wave parametric amplifier that is provided with space light beam collimation and splitting device e.g. off-axis parabolic mirror and non-linear optical crystal set according to light path. The space light beam collimation and splitting device is provided with signal light input port. The optical crystal is provided with output port. The terahertz wave is emitted by pumping source. The wave signal source is connected to optical crystal which outputs wave to input port. The collimating and splitting device is provided to output synthesized light.

USE - Terahertz wave optical parameter amplification device.

ADVANTAGE - The problem related to the low output power, complexity of equipment structure and the increasing cost can be solved effectively. The power potential can be increased. The amplification noise can be reduced.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for terahertz wave optical parameter amplification method.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of the terahertz wave optical parameter amplification device. (Drawing includes non-English language text)

Derwent Class Code(s): P81 (Optics); V07 (Fibre-optics and Light Control)

Derwent Manual Code(s): V07-F02A; V07-K01C; V07-K10B

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